

Product datasheet for **MG215774**

Alg1 (NM_145362) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Alg1 (NM_145362) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Alg1
Synonyms:	HMAT1; HMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG215774 representing NM_145362
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGCGTCTGCGTGGCGCTGCTGGTTCTGGCGCTGCTGTTGCTGGTCTGCTGCTGGGCTTGTGGA
 AGCGTGGGCGGCAAACGGGCAGGGCCCGGCACATGGTCTGTCGTTGCTGGGCGAGTGGGCCGAGCCC
 CCGCATGCAGTACCACGCGCTGTATTGGCCAGAGCGGCTTTTCGGTGACGCTGCTGGGTTCTACAAC
 TCCAAACCTCGAGATGAACTCTTGCAGAAATGATAGGATTCGGATTGTGAAGTTGACAGATCTGCGGGCC
 TGGGAGCTGGGCCCCGAATTCAGATGAGGATCAAGTTGATTTTCAGGCAGTGTACTTGTGTGAA
 GATGATGCGCATGGACCCTGCAGCCTACATCTTCTCCAGAACCTCCAGGTCTGCCTGCTATTGCCGTC
 TGCTGGTTTGTGGGCTGCATTTGTGGGAGCAAATTTGGTTCGACTGGCACAATATGGCTACTCCATCA
 TGGGCTTGGTCCATGGCCCCGCCACCCATTGTGCTGCTGGCCAAATGGTATGAGAAGTCTTCGGGGC
 CCTGTCCACCTGAACCTGTGTGTGACCAATGCTATGCGGGAGGACCTGGCAGAGAAGTGGTGTGTCAGG
 GCTGTGACGCTCTACGACAAGCCAGCATCTTTCTTAAGGAGACACCCCTGGACCTGCAGCATGAACTCT
 TTATGAAGCTGAGCCACACGTACTCTCCTTTCCAGAGCTGCTCAGATCCCTCACATCCTGACACAGAGAG
 GTCGGCCTTCACTGAGAGGGATTGTGAGAGCGGGTTGTGAGGCGTCTGCATGGGCGCCAGCACTGCTC
 GTGAGCAGCACAAGCTGGACAGAGGACGAGGACTTCTCCATCCTGCTTCGAGCATTAGAAAAGTTTGTGAGC
 ACAAGCACTCACTGGAGACAGCCTCCCTTCCCTCGTCTGTGTGATAACAGGGAAGGGACCGCTCAGAGA
 GCACTACCGCCACCTCATCAGCCAGAAGCACCTTCAGCACGTCCGGTTCTGCACCCCATGGCTGGAAGCC
 GAGGACTACCCACTGCTTCTAGGGTCAGCGGATCTGGGTGTCTGTCTACACATGCTCCTCCAGTGGTCTGG
 ACCTGCCATGAAGGTGGTGGACATGTTTGGGTGCCACTTGCCTGTGTGTGCCGTGAACCTCAAGTGTCT
 GCACGAGCTAGTAAGACATGGAGAGAATGGTCTGGTCTTCAAGGATGCTGAGGAGCTGGCAGCTCAGCTG
 CAGATGCTTTTCTCAAAGTTCCAGACCCTGCTGGAAAGCTAAGCCAGTTCGGAAAGAACTGCAGGAGT
 CGGGGAGCAACGCTGGGATGAGAGCTGGCAGCACACTGTGCTCCTCTGCTCGCTCACTCACAGATGAC
 CCCCAGGCCCATCCACCCTGTGGCCACCCTTCTGCCGGGGCTTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215774 representing NM_145362
 Red=Cloning site Green=Tags(s)

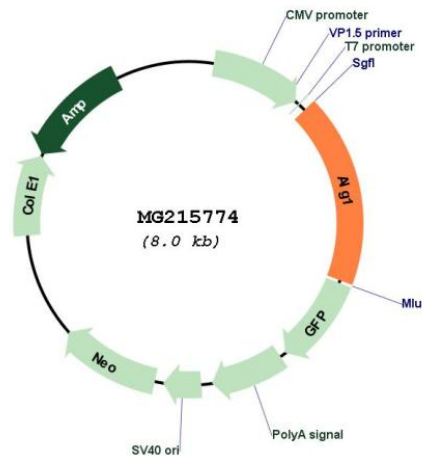
MAASCVALLVLALLLVLLGLWKRGRQTGRARHMVVVVLGDVGRSPRMQYHALSLAQSGFSVTLGLGFYN
 SKPRDELLQNDRIKIVKLTDLRGLGAGPRILQYGVKVVFAVYLLWKMMRMDPAAYIFLQNPPLPAIAV
 CWFVGCICGSKLVIDWHNYGYSIMGLVHGPRHPVLLAKWYKFFGRLSHLNLCVTNAMREDLAENWCVR
 AVTLYDKPASFFKETPLDLQHELFMKLSHTYSPFQSCSDPSHPDTERSAFTERDCQSGVRRRLHGRPALL
 VSSTSWTEDEDFSILLRALEKFEQQALTGDSLPSLVCVITGKGPLREHYRHLSQKHLQHVRFCTPWLEA
 EDYPLLLGSADLGVCLHMSSGLDLPKVVDMFGCHLPVCAVNFKCLHELVRHGENGLVFKDAEELAAQL
 QMLFSKFPDPAGKLSQFRKLLQESGQQRWDESWQHTVLPLLAHSQMTPRPHPPCGHPSCRGF

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_145362

ORF Size: 1446 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_145362.2](#), [NP_663337.2](#)

RefSeq Size: 1772 bp

RefSeq ORF: 1449 bp

Locus ID: 208211

UniProt ID: [Q921Q3](#)

Cytogenetics: 16 A1

Gene Summary: Participates in the formation of the lipid-linked precursor oligosaccharide for N-glycosylation. Involved in assembling the dolichol-pyrophosphate-GlcNAc(2)-Man(5) intermediate on the cytoplasmic surface of the ER (By similarity).[UniProtKB/Swiss-Prot Function]